

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1-5. (canceled)

6. (amended) A method for determining the scattering produced by one or more particles in a stream in a flow channel, the method comprising:

activating a linear array of light sources to provide a substantially constant light intensity across a width of the flow channel; [[and]]

receiving with a light detector the substantially constant light intensity provided across the width of the flow channel by the linear array of light sources; and

wherein the substantially constant light intensity provided across the width of the flow channel provides for consistent measurement accuracy across the width of the flow channel.

7. (original) The method of claim 6, wherein the linear array of light sources is non-parallel to the flow channel.

8. (original) The method of claim 6, further comprising analyzing a scatter pattern produced by the one or more

particles in a stream in the flow channel as detected by the light detector.

9. (original) The method of claim 8, further comprising:  
    activating a second linear array of light sources to  
        provide a second substantially constant light  
        intensity across the width of the flow channel;  
    and  
    receiving with a second light detector the second  
        substantially constant light intensity provided  
        across the width of the flow channel by the  
        second linear array of light sources.

10. (original) The method of claim 9, wherein the second linear array of light sources is non-parallel to the flow channel.

11. (original) The method of claim 9, further comprising determining a velocity of one or more particles in the stream in the flow channel from the light detectors.

12. (original) An apparatus for analyzing one or more particles in a stream in a flow channel, the apparatus comprising:  
    a linear array of light sources for providing a  
        substantially constant light intensity across a

width of the flow channel; and  
a light detector for receiving the substantially  
constant light intensity across the width of the  
flow channel from the linear array of light  
sources.

13. (original) The apparatus of claim 12, wherein the  
linear array of light sources is non-parallel to the flow  
channel.

14. (original) The apparatus of claim 12, further  
comprising a processor, connected to the light detector,  
for analyzing a scatter pattern produced by one or more  
particles in a stream in the flow channel as detected by  
the light detector.

15. (original) The apparatus of claim 14, further  
comprising:

a second linear array of light sources for providing a  
second substantially constant light intensity  
across the width of the flow channel; and  
a second light detector for receiving the  
substantially constant light intensity across the  
width of the flow channel from the second linear  
array of light sources.

16. (original) The apparatus of claim 15, wherein the

second linear array of light sources is non-parallel to the flow channel.

17. (original) The apparatus of claim 15, wherein the processor is connected to the second light detector for determining a velocity of one or more particles in the stream in the flow channel.